

SEARS, ROEBUCK and CO., Hoffman Estates, IL 60179 U.S.A.

SAFETY RULES

CAUTION: ALWAYS DISCONNECT SPARK PLUG WIRE AND PLACE WIRE WHERE IT CANNOT CON-TACT SPARK PLUG, TO PREVENT ACCIDENTAL STARTING WHEN SETTING UP, TRANSPORTING, ADJUSTING OR MAKING REPAIRS TO YOUR GENERATOR.



THIS GENERATOR IS DESIGNED FOR OUTDOOR USE ONLY. USING THIS GENERATOR INSIDE ANY BUILDING OR ENCLOSURE, INCLUDING THE GENERATOR COMPARTMENT OF A RECREATIONAL VEHICLE (RV), IS DANGEROUS. FIRE OR AN EXPLOSION MAY RESULT. NO USER PERFORMED MODIFICATIONS, INCLUDING VENTING OF EXHAUST AND/OR COOLING VENTILATION, WILL ELIMINATE THE DANGER.

- If this unit is used for backup power in the event of a utility power failure, take the following steps: BE-FORE CONNECTING THE GENERATOR TO AN ELECTRICAL SYSTEM OPEN THE MAIN CIR-CUIT BREAKER OR MAIN SWITCH SERVING THE SYSTEM TO ISOLATE THE GENERATOR SYSTEM FROM THE ELECTRIC UTILITY. FAIL-URE TO ISOLATE THE GENERATOR AND UTIL-ITY SYSTEMS MAY RESULT IN DAMAGE TO THE GENERATOR AND MAY ALSO RESULT IN INJURY OR DEATH TO ELECTRIC UTILITY WORKERS DUE TO BACKFEED OF ELECTRI-CAL ENERGY.
- This generator supplies dangerously high electrical voltages. Use care to prevent extremely hazardous and possibly lethal electrical shock. Never permit any unqualified person(s) to operate or service the unit.
- DO NOT operate this equipment in the rain, while standing in water, while barefoot, or while hands or feet are wet. Dangerous electrical shock will result.
- The spark arrestor muffler can become extremely hot. DO NOT operate this equipment in areas where combustible material such as grass, leaves or paper products can come in contact with the muffler.
- Maintain all wiring, extension cords, etc., in good condition. Worn, bare, frayed, or otherwise damaged wiring and cord sets may cause dangerous electrical shock and may also result in damage to equipment and/or property.
- The National Electrical Code requires that the generator be properly connected to an approved earth ground. Local electrical codes may also require proper grounding of the unit. See ASSEMBLY section for more grounding information.
- Wire gauge sizes of wiring and cord sets must be large enough to handle the maximum electrical load to which they will be subjected. Most devices require cord sets rated 125 AC volts at 20 to 30 amperes or 250 AC volts at 20 amps (or greater). Some devices may require a higher or lower rating. Refer to the Owner's manual of the electrical device for the manufacturer's recommendations. Cord sets that are too small in diameter or too long will overheat, become damaged and may cause property damage and/or electrical shock.
- The generator engine consumes oxygen and gives off DEADLY carbon monoxide gas through its exhaust system. This dangerous gas, if breathed in

sufficient concentrations, can cause unconsciousness or even death. Operate this equipment outdoors only, in well ventilated areas where exhaust gases cannot accumulate and endanger people or animals.

🔺 WARNING: 🔺

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

- Gasoline is extremely FLAMMABLE and its vapors are EXPLOSIVE. Comply with all laws regulating the storage and handling of gasoline. DO NOT permit smoking, open flames, sparks or heat in the vicinity while handling gasoline. Avoid spilling gasoline on a hot engine. DO NOT fill fuel tank while engine is running or hot. Clean off any spilled gasoline before starting engine.
- DO NOT fill fuel tank completely full. Allow room at top of tank for fuel expansion or fuel may expand and overflow onto a hot engine.
- Drain all gasoline from tank before transporting your generator inside your car or other vehicle.
- DO NOT store the generator with fuel in tank where gasoline vapors might reach an open flame, spark, or pilot light, as on a furnace, water heater, dryer, etc. FIRE or an EXPLOSION might result.
- DO NOT insert any object or tool through cooling air slots or openings of the engine or generator, even if the engine is not running. Damage to the unit or personal injury may result.
- DO NOT attempt to change the engine governed speed.. Factory settings are correct when you receive the unit. Excessively high engine speeds may result in injury or damage to equipment.
- DO NOT use the unit if it has been damaged. Repair or replace all damaged or defective components before you run the unit.
- DO NOT permit children to operate or service the generator.
- Read your Owner's Manual carefully. Only persons who are familiar with these safety rules and have been properly instructed in the use of this product should be permitted to use the product.



LOOK FOR THIS SYMBOL TO POINT OUT IMPORTANT SAFETY PRECAUTIONS. IT MEANS "ATTENTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED." CONGRATULATIONS on your purchase of a Sears Craftsman Generator. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

Should you experience any problem you cannot easily remedy, please contact your nearest Sears Service Center/Department or call the 1-800 number listed in this manual. We have competent, well-trained technicians and the proper tools to service or repair this unit.

Please read and retain this manual. The instructions will enable you to assemble and maintain your generator properly. Always observe the 'SAFETY RULES."

MODEL

NUMBER 580.327270

SERIAL

NUMBER___

DATE OF PURCHASE

THE MODEL AND SERIAL NUMBERS WILL BE FOUND ON A DECAL ATTACHED TO THE GENER-ATOR STATOR CAN.

YOU SHOULD RECORD BOTH SERIAL NUMBER AND DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

MAINTENANCE AGREEMENT

A Sears Maintenance Agreement is available on this product. Contact your nearest Sears store for details.

CUSTOMER RESPONSIBILITIES

- Read and observe the safety rules.
- Follow regular schedule in maintaining, caring for and using your generator.
- Follow the instructions under "Maintenance" and "Storage" sections of this Owner's Manual.

PRODUCT SPECIFICATIONS

Generator Specifications

2500 Watts (2.5 kW)
120 Volts a-c
20.8 a-c amperes
60 Hz at 3600 rpm
Single Phase

Engine Specifications

RATED HORESPOWER	5 at 3600 rpm
DISPLACEMENT	10.49 cu. in. (172cc)
SPARK PLUG: Type:	Champion RJ-8C or or equivalent
Set Gap to:	0.030 inch (0.76mm)
GASOLINE CAPACITY	3 U.S. quarts
OIL (1-1/4 U.S. pints)	SAE 30 oil

In the State of California a spark arrestor is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands.

NOTE: If you equip your generator with a spark arrestor muffler, the spark arrestor must be maintained in effective working order by the owner/operator.

You can order a spark arrestor muffler through your Sears Service Center.

FULL TWO YEAR WARRANTY

For two years from the date of purchase, Sears will repair any defect in material or workmanship in this generator at no charge.

If the generator is used for commercial or rental purposes, this warranty applies for only ninety days from the date of purchase:

Warranty service is available by returning the generator to the nearest SEARS SERVICE CENTER/DEPART-MENT throughout the United States.

This warranty gives you specific legal rights and you may also have other rights, which vary from state to state.

SEARS, ROEBUCK AND CO., Department 817 WA, Hoffman Estates, IL 60179

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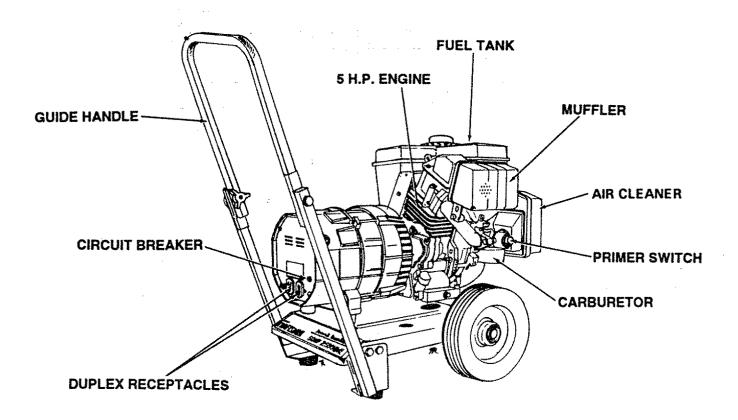
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KNOW YOUR GENERATOR

READ THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR GENERATOR. Compare the illustrations with your generator, to familiarize yourself with the locations of various controls and adjustments. Save this manual for future reference.



120 VOLTS 'DUPLEX' RECEPTACLES — May be used to supply electrical power for the operation of 120 volts at 20 amps a-c, single phase, 60 Hz, a-c electrical lighting, applicance, tool and motor loads.

RECOIL STARTER — Used for starting the engine manually.

FUEL TANK — Tank holds three U.S. quarts of unleaded gasoline.

20-AMP A-C CIRCUIT BREAKER — Protects the generator against electrical overload. Breaker is "push to reset" type.

AIR CLEANER — Filters intake air as it is drawn through the engine.

5 H.P. ENGINE — Provides the power needed to generate 2400 watts of AC output.

Your a-c generator was completely assembled at the factory. It is ready for use after it has been properly serviced with the recommended lubricating oil and fuel.

IF YOU HAVE ANY PROBLEMS WITH THE ASSEMBLY. OF YOUR GENERATOR, PLEASE CALL THE GENER-ATOR HELPLINE AT 1-800-222-3136.

IMPORTANT: ANY ATTEMPT TO RUN THE ENGINE BEFORE IT HAS BEEN SERVICED WITH THE RECOM-MENDED OIL WILL RESULT IN AN ENGINE FAILURE.

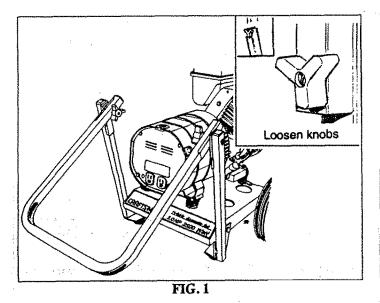
TO REMOVE GENERATOR FROM CARTON

- Set the carton on a flat rigid surface with "THIS SIDE UP" arrows pointing upward.
- Carefully open the top flaps of shipping carton.
- Cut down corners at one end of shipping carton and lay that side of carton down flat.
- Remove packing material, carton fillers, etc.
- Remove generator from shipping carton.

TO ADJUST GUIDE HANDLE

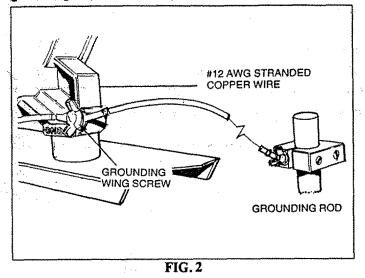
Your generator is equipped with a wheel kit for easy manuevering. After you remove the generator from the carton you complete the following tasks to ready to generator for use:

- Loosen knobs of the guide handle as shown in Fig. 1.
- Raise the guide handle as also shown in Fig. 1 and tighten the knobs to hold the handle in place.



GROUNDING THE GENERATOR.

The National Electrical Code requires that the frame and external electrically conductive parts of this generator be properly connected to an approved earth ground, Local electrical codes may also require proper grounding of the unit. For that purpose, a GROUNDING LUG is provided on the control panel (Fig. 2). Generally, connecting a No. 12 AWG (American Wire Gauge) stranded copper wire to the grounding lug and to an earth-driven copper or brass grounding rod (electrode) provides adequate protection against electrical shock (Fig. 2). However, local codes may vary widely. Consult with a local electrician for grounding requirements in your area.



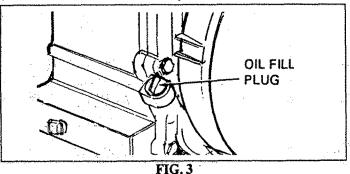
Proper grounding of generator will help prevent electrical shock in the event of a ground fault condition in the generator or in connected electrical devices. Proper grounding also helps dissipate static electricity, which, often builds up in ungrounded devices.

IF YOU HAVE ANY PROBLEMS OPERATING YOUF GENERATOR, PLEASE CALL THE GENERATOR HELPLINE AT 1-800-222-3136.

BEFORE STARTING ENGINE

Add Oil:

Place generator on a level surface and remove oil fill plug. Fill with SAE 30 detergent oil to point of overflowing for oil fill plug (Fig. 3). POUR SLOWLY. DO NOT OVERFILL. Oil capacity of engine is 21 ounces (.62 Liters or 1-1/4 U.S. pints).



• When oil sump is full, install and tighten oil fill plug. Use no special additives with recommended oils.

NOTE: Use of multi-viscosity oils above 40 f (4°C) will result in high oil consumption and possible engine damage. Use 5W-30 when operating the generator in weather below 32 f.

NOTE: When adding oil to the engine crankcase in the future, use only high quality detergent oil rated with API service classification SF, SG, or SH, rated SAE 30 weight. Select the oil's viscosity grade according to your expected operating temperature.

Although multi-viscosity oils (5W30) improve starting incold weather, these multi-viscosity oils will result in in-

-	colder 3	2° warmer
	5W30	SAE30

creased oil consumption when used above 32°F. Check your engine oil level more frequently to avoid possible damage from runnign low on oil. Oil sump capacity is 21 ounces (.62 Liters or 1-1/4 U.S. pints).

Add Gasoline:

 Fill fuel tank with clean, fresh, UNLEADED gasoline. Leaded regular grade gasoline may also be used. DO NOT USE PREMIUM GASOLINE. DO NOT MIX OIL WTH GASOLINE. BE CAREFUL NOT TO OVERFILL FUEL TANK. Allow about 1/4-inch of tank space for expansion.

IMPORTANT: EXPERIENCE INDICATES THAT ALCO-HOL-BLENDED FUELS (CALLED GASOHOL) CAN AT-TRACT MOISTURE WHICH LEADS TO SEPARATION AND FORMATION OF ACIDS DURING STORAGE. ACIDIC GAS CAN DAMAGE THE FUEL SYSTEM OF AN ENGINE WHILE IN STORAGE. TO AVOID ENGINE PROBLEMS WHEN USING GASOHOL, EMPTY THE FUEL SYSTEM BEFORE STORAGE PERIODS OF 30 DAYS OR LONGER. DRAIN THE GAS TANK, START THE ENGINE AND LET IT RUN UNTIL THE FUEL LINES AND CARBURETOR ARE EMPTY. USE FRESH FUEL NEXT SEASON. SEE STORAGE INSTRUCTIONS FOR ADDITIONAL INFORMATION. NEVER USE ENGINE OR CARBURETOR CLEANER PRODUCTS IN THE FUEL TANK OR PERMANENT DAMAGE MAY OCCUR.

NOTE: DO NOT USE GASOLINE CONTAINING METHA-NOL (WOOD ALCOHOL). You can use gasolines containing 10% ethanol or grain alcohol. See STORAGE IN-STRUCTIONS for more information.

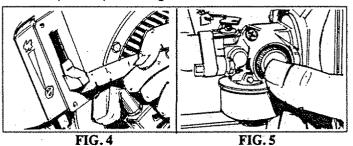
TO START THE ENGINE

Unplug all electrical loads from generator receptacles before starting the engine. Never start or stop engine with electrical devices plugged into panel receptacles and turned on.

- Move engine control lever to "START" position (Fig. 4).
- Press the primer bulb three times. Wait 2 seconds each time you press the primer.

NOTE: The primer may be needed to restart a warm engine after a short shutdown:

 Grasp starter grip and pull slowly until you feel some resistance. Let rope return slowly. Then pull cord out with rapid full arm stroke. Let rope return slowly. Do not let rope "snap back" against starter.



120-VOLT CORD SETS

Use only high quality, well-insulated, extension cords with the generator's 120-volt "duplex" type electrical receptacles (Fig. 6). Check the ratings of all extension cords before you use them. Extension cord sets used should be rated 125 volts at 20 a-c amps or greater for most electrical devices. Some devices, however, may not require this type of extension cord. Check the owner's manuals of those devices for the manufacturer's recommendations.

Keep extension cords as short as possible, preferably less than 15 feet long to prevent voltage drop and possible overheating of wires.

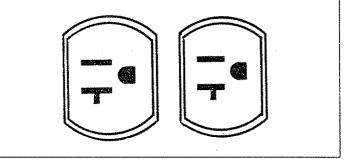


FIG. 6

CONNECTING ELECTRICAL LOADS

- Use this generator to operate 120 volt, single phase, 60 Hz, a-c lighting, appliance, tool and motor loads.
- DO NOT connect 240 volts to 120 volts duplex outlets.
- DO NOT connect any 3-phase loads to panel receptacles.
- DO NOT connect any 50 Hz loads to the generator.
- Add up rated watts of all lights, tool, appliance and motor loads you are powering at one time. This total should NOT be greater than (a) generator's rated wattage capacity, or (b) circuit breaker rating of the receptacle supplying power. See "Don't Overload the Generator" on Page 6.

STOPPING THE ENGINE

- Unplug all electrical loads from generator panel receptacles. Never start or stop engine with electrical devices plugged in and turned on.
- Let engine run at no-load for several minutes to stabilize the internal temperatures of engine and generator.
- Move stop lever to "OFF" position.

DON'T OVERLOAD THE GENERATOR

This generator is equipped with one 20-amp circuit breaker. The duplex receptacle is protected against electrical overload with the 20-amp breaker. Overloading a generator in excess of its rated wattage capacity can result in damage to the generator and to connected electrical devices. Observe the following, to prevent overloading the unit:

- Add up the total wattage of all electrical devices to be connected at one time. This total should NOT be greater than the generator's wattage capacity.
- The rated wattage of lights can be taken from light bulbs. The rated wattage of tools, appliances and motors can usually be found on a data plate or decal affixed to the device.

- If the appliance, tool or motor does not give wattage, multiply 120 volts times ampere rating to deter e watts (volts x amps =watts).
- Some electric motors, such as induction types, require about two and a half times more watts of power for starting than for running. This surge of power lasts only a few seconds when starting such motors. Make sure you allow for this high starting wattage when selecting electrical devices to connect to your generator. First, figure the watts needed to start the largest motor. Add to that figure the running watts of all other connected. loads.
- The GUIDE below is provided to assist you in deteræ mining how many items your generator can operate at one time.

RUNNING

WATTAGE REFERENCE GUIDE

RUNNING

	WATTS
*Air Conditioner (12,000 Btu)	1700
Battery Charger (20 amp)	500
Belt Sander (3")	
Chain Saw	
Circular Saw (6-1/2")	800 to 1000
Coffee Maker	
*Compressor (1 HP)	
*Compressor (3/4 HP)	
*Compressor (1/2 HP)	
Curling Iron	
*Deep Freeze	
Disc Sander (9")	
Edge Trimmer	
Electric Nail Gun	
Electric Range (one element)	
Electric Skillet	
*Furnace Fan (1/3 HP)	
Hair Dryer	
Hand Drill (1")	
Hand Drill (1/2")	750 to 1000
Hand Drill (3/8")	
Hand Drill (1/4")	
Hedge Trimmer	

RUINING	
WATTS	
*Jet Pump	
Lawn Mower	
Light Bulb /00	
Microwave Oven	
*Milk Cooler	
Oil Burner on Furnace	
Oil Fired Space Heater (140,000 Btu) 400	
Oil Fired Space Heater (85,000 Btu) 225	
Oil Fired Space Heater (30,000 Btu)	
*Paint Sprayer, Airless (1/3 HP) 600	
Paint Sprayer, Airless (handheld) 150	
Radio 50 to 200	
Refrigerator	
Slow Cooker	
*Submersible Pump (1-1/2 HP)	
*Submersible Pump (1 HP) 2000	
*Submersible Pump (1/2 HP) 1500	••
Sump Pump	
Sump Pump	
Television	
Weed Trimmer	1.0
*Allow 2-1/2 times the listed watts for starting thes vices.	

MAINTENANCE

GENERAL RECOMMENDATIONS

The Owner/Operator is responsible for making sure that all periodic maintenance tasks are completed on a timely basis; that all discrepancies are corrected; and that the unit is kept clean and properly stored. Never operate a damaged or defective generator.

GENERATOR MAINTENANCE

Generator maintenance consists of keeping the unit clean and dry. Operate and store the unit in a clean dry environment where it will not be exposed to excessive dust, dirt, moisture or any corrosive vapors. Cooling air slots in the generator must not become clogged with snow, leaves or any other foreign material.

Check the cleanliness of the generator frequently and clean when dust, dirt, oil, moisture or other foreign substances are visible on its exterior surface.

NOTE: We DO NOT recommend/d using a garden hose to clean the generator. Water can enter the engine fuel system and cause problems. In addition, if water enters the generator through cooling air slots, some of the water will be retained in voids and cracks of the rotor and stator winding insulation. Water and dirt build-up on the generator internal windings will eventually decrease the insulation resistance of these windings.

TO CLEAN THE GENERATOR:

- Use a damp cloth to wipe exterior surfaces clean.
- Use a soft, bristle brush to loosen caked on dirt, oil, etc.
- A vacuum cleaner may be used to pick up loose dirt and debris.
- Low pressure air (not to exceed 25 psi) may be used to blow away dirt. Inspect cooling air slots and opening on the generator. These openings must be dirt clean and unobstructed.

CAUTION: NEVER INSERT ANY OBJECT OR TOOL THROUGH THE AIR COOLING SLOTS, EVEN IF THE ENGINE IS NOT RUNNING. DAMAGE TO THE UNIT OR PERSONAL INJURY MAY RESULT.

ENGINE MAINTENANCE

CHECKING OIL LEVEL

See OPERATION section on Page 4 for information on checking oil level. Oil level should be checked before each use or at least every five hours of operation. Keep oil level maintained.

CHANGING OIL

Change oil after first 2 hours of operation. Change oil every 50 hours thereafter. If you are using your generator under dirty or dusty conditions, or in extremely hot weather, change oil more often.

CAUTION: DISCONNECT SPARK PLUG WIRE FROM SPARK PLUG AND KEEP IT AWAY FROM SPARK PLUG. DO THIS EVERY TIME YOU PER-FORM ANY MAINTENANCE ON THE ENGINE OR THE GENERATOR.

Change oil while engine is still warm from running, se follows:

 Clean area around oil drain plug, remove plug (Fig. 7) and drain oil completely into a suitable container. When oil has drained, install and tighten oil drain plug.

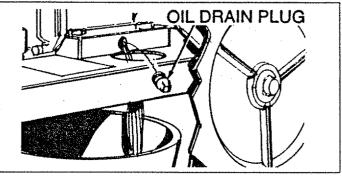


FIG. 7

- Remove oil fill plug and insert a clean fill funnel into plug opening. Fill engine crankcase with recommended oil until oil level is at point of overflowing. About 21 ounces is required. POUR SLOWLY.
- When engine crankcase is filled to proper level. Install and tighten oil fill plug.

SERVICE AIR CLEANER

Your engine will not run properly and may be damaged if you run it using a dirty air cleaner.

Clean or replace the air cleaner paper filter (Fig. 8) once every 100 hours of operation or once a year, whichever comes first. Clean or replace more often if operating under dusty or dirty conditions.

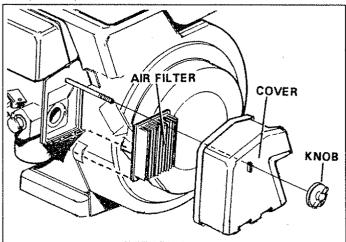


FIG.8

CAUTION: NEVER RUN THIS UNIT WITHOUT THE COMPLETE AIR CLEANER SYSTEM INSTALLED ON THE ENGINE. THIS COULD RESULT IN PRE-MATURE WEAR TO THE ENGINE.

MAINTENANCE

To clean or replace air cleaner:

- Remove air cleaner cover; remove paper filter.
- Clean air filter by tapping it gently on s solid surface. If the filter is too dirty, replace it with a new one. Dispose of the oil filter property.
- Clean air cleaner cover then insert newpaper filter into cover and assemble to the base of the air cleaner.

REPLACE SPARK PLUG

Change the spark plug every 100 hours of operation or once each year, whichever comes first. This will help your engine to start easier and run better. Replace with Champion RC-J8 or equivalent type spark plug. Set spark plug gap (Fig. 9) to 0.030 inch (0.76mm).

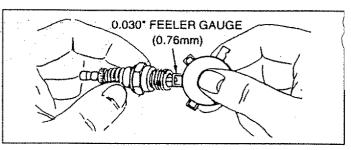


FIG.9

SERVICE RECOMMENDATIONS

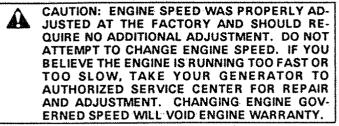
MAINTENANCE OPERATION	Every 5 Hours or Daily	25 Hours or Every Season	50 Hours or Every Season	100 Hours or Every Season	
Check Oil Level	··· X				
Change Oil			See Note 1	X	
Service Air Filter		See Note 2			
Replace or Clean Spark Plug				X	
Prepare Unit for Storage	Prepare unit for storage if it is to remain idle for more than 30 days.				

NOTE 1: Change oil and oil filter after first 2 hours of operation and then every 50 hours thereafter. Change sooner when operating under heavy load or in dusty or dirty environment or in high ambient temperature.

NOTE 2: Clean more often when operating the unit under dirty or dusty conditions.

SERVICE AND ADJUSTMENTS

ENGINE SPEED



Your generator runs at a constant speed. This constant operating speed is maintained by a mechanical, flyweight type, fixed speed governor." DO NOT try to adjust the governed speed setting for the following reasons:

- High engine speeds are dangerous and increase the risk of personal injury or damage to equipment.
- Low engine speeds impose a heavy load on the engine when sufficient engine power is not available and may shorten engine life.
- The generator should be started at least once every seven days and allowed to run at least 30 minutes. If this cannot be done and you must store the unit for more than 30 days, use the following information as a guide to prepare it for storage.

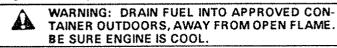
STORAGE INSTRUCTIONS

WARNING: NEVER STORE ENGINE WITH FUEL IN THE TANK INDOORS OR IN ENCLOSED, POORLY VENTILATED AREAS, WHERE FUMES CAN REACH AN OPEN FLAME SPARK OR PILOT LIGHT AS ON A FURNACE, WATER HEATER, CLOTHES DRYER OR OTHER GAS FURNACE.

ENGINE

Run engine for about five minutes to warm it.

NOTE: If you did use "gasohol," drain fuel tank, then run engine until engine stops from lack of fuel.



NOTE: Using a fuel additive such as Sears Craftsman[®] Fuel Stabilizer, or an equivalent, will prevent gum deposits from forming in the generator's fuel system.

- While engine is still warm, drain oil from crankcase. Refill with fresh oil. See BEFORE STARTING EN-GINE on Page 5 for oil recommendations.
- Remove spark plug and pour about 1 ounce (30ml) of engine oil into cylinder. Crank slowly to distribute oil.

The generator will supply correct rated AC frequency and voltage only at the proper speed. Some connected electrical devices could be damaged by incorrect frequency and/or voltage.

ADJUSTING THE CARBURETOR

The carburetor of your generator set is preset at the factory. DO NOT TAMPER WITH THE CARBURETOR as this will void the warranty for the emission control system. If your generator is to be used at an altitude above 5,000 feet, consult with a Sears Authorized Service Facility regarding high altitude jetting changes.

STORAGE

CAUTION: AVOID SPRAY FROM SPARK PLUG HOLE WHEN CRANKING ENGINE SLOWLY.

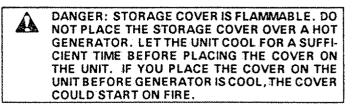
- Install spark plug. Do not connect spark plug wire.
- Clean dirt, oil and grease from cylinder, cylinder head, fins, blower housing, rotating screen and muffler area.

GENERATOR

- Clean the generator as outlined on Page 7 ("To Clean the Generator").
- Check that cooling air slots and openings on generator are open and unobstructed.

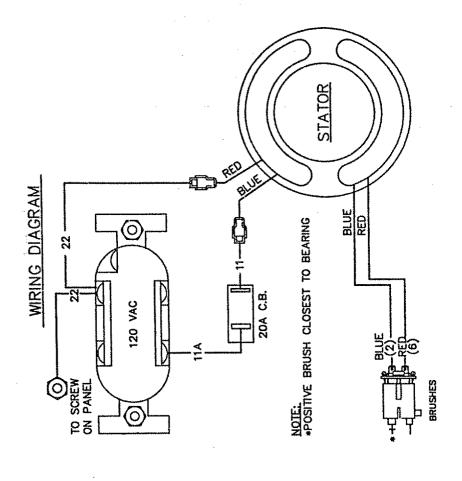
OTHER STORAGE TIPS

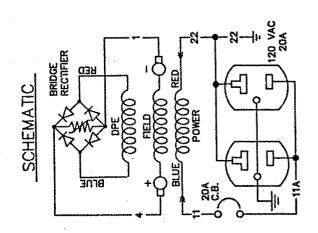
- Do not store gasoline from one season to another.
- Replace your gasoline can if it starts to rust. Rust and/or dirt in your gasoline can cause problems when you use it with this unit.
- Store in clean and dry area.



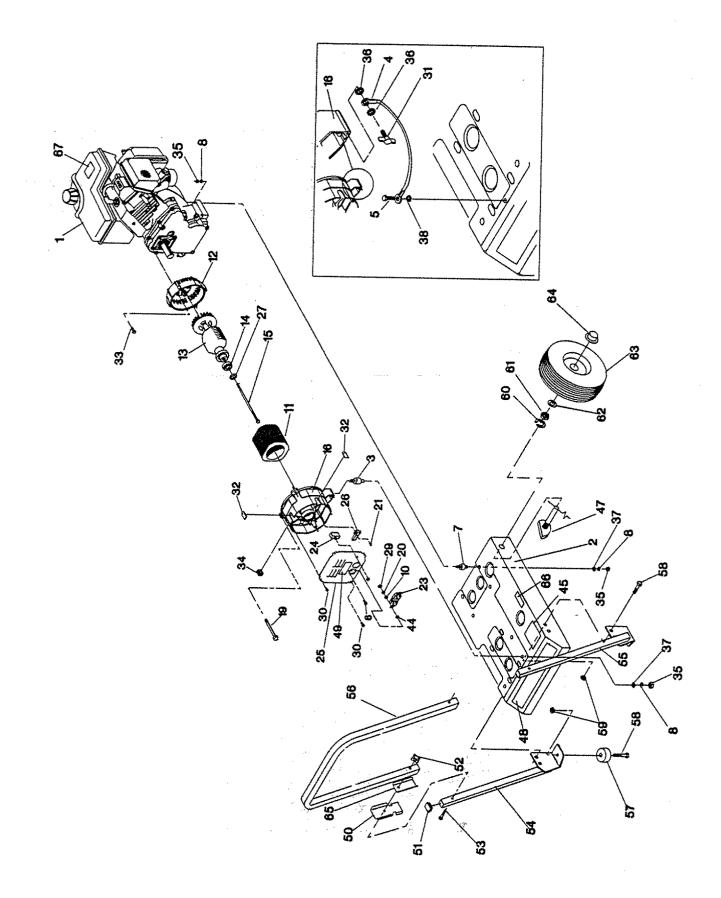
TROUBLESHOOTING POINTS

PROBLEM	CAUSE	CORRECTION
Engine is running, but no	1. One of the circuit breakers is open.	1. Reset circuit breaker.
AC output is available.	2. Fault in generator.	2. Contact Sears Service Departmen
·	3. Poor connection or defective	3. Check and repair.
a de la companya de l	cord set	
	4. Connected device is bad.	4. Connect another device that is
		in good condition.
Engine runs good at no-load but "bogs	1. Short circuit in a connected load.	1. Disconnect shorted electrical load.
down" when loads are connected	2. Engine speed is too slow.	2. Contact Sears Service Department
	3. Generator is overloaded.	3. See "Don't Overload the Generato
		on Page 10.
	4. Shorted generator circuit.	4. Contact Sears Service Departmen
Engine will not start; or starts	1. Run/Stop Switch set to STOP.	1. Set switch to RUN.
and runs rough.	2. Dirty air cleaner	2. Clean or replace air cleaner.
	3. Out of gasoline.	3. Fill fuel tank.
	4. Stale gasoline.	4. Drain gas tank; fill with fresh fuel.
	5. Spark plug wire not connected	5. Connect wire to spark plug.
	to spark plug.	
	6. Bad spark plug.	6. Replace spark plug.
	7. Water in gasoline.	7. Drain gas tank; fill with fresh fuel.
	8. Overchoking.	8. Open choke fully and crank engine
	9. Excessively rich fuel mixture.	9. Contact Sears Service Departmen
	10. Intake valve stuck open or closed.	10. Contact Sears Service Departmen
	11. Engine has lost compression.	11. Contact Sears Service Departmen
	12. Intake valve stuck open or closed.	12. Contact Sears Service Department
	 Engine compression lost. Failed battery. 	13. Contact Sears Service Department 14. Replace battery.
	14. raieu ballety.	
Engine shuts down during operation	1. Out of gasoline.	1. Fill fuel tank.
	2. Low oil level.	2. Fill crankcase to proper level.
Engine lacks power.	1. Load is too high.	1. See "Don't Overload the Generato
	•	on Page 10.
	2. Dirty air filter.	2. Replace air filter.
Engine "hunts" or falters.	Carburetor is running too rich	Contact Sears Service Department.
	or too lean.	





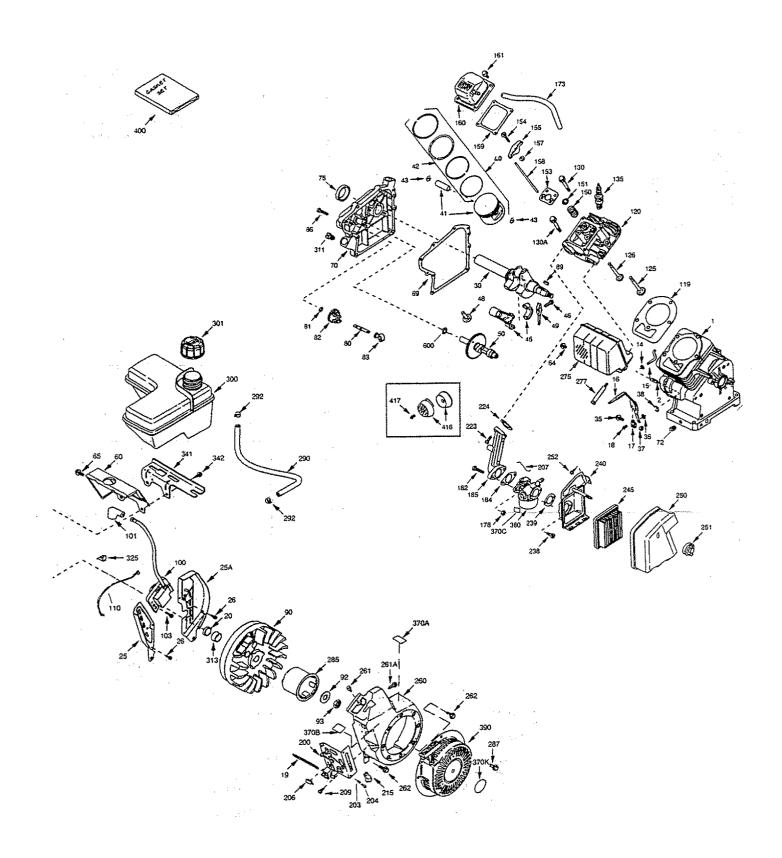
Drawing No. 93438



ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	99369	ENGINE-5HP TECUMSEH (1 REQ.)	33	86307	CAPSCREW, HEX HD (4 REQ.)
2 3	95902	BASE, MOUNTING (1 REQ.)			5/16"-24 x 3/4" SEMS
	85652	VIBRATION MOUNT-ALT. (2 REQ.)	34	67022	GROMMET, BEARING CARRIER (1 REQ.)
4	143-53621	GROUND WIRE (1 REQ.)	35	45771	M8-1.25 HEX NUT (6 REQ.)
5	86292	CAPSCREW, SELF DRILLER #10 (1 REQ.)	36	26850	WASHER, SHAKE-PROOF M6-1/4 (2 REQ.)
6	75475	SCREW, PAN HD. MACH. M4-0.7 x 10 (2 REQ.)	37	22145	FLAT WASHER-M8 (4 REQ.)
7	85651	MOUNT, VIBRATION-ENGINE (2 REQ.)	38	22769	WASHER; SHAKE PROOF #10 (1 REQ.)
8	22129	LOCK WASHER-M8 (6 REQ.)	45	93639	DECAL, DANGER-ENGLISH (1 REQ.)
10	38150	WASHER, FLAT-#8 (2 REQ.)	47	93728	AXLE, WHEEL (2.REQ.)
11	91824	STATOR ASSEMBLY (1 REQ.)	48	99377	DECAL, LOGO (1 REQ.)
12	66365-F	HOUSING, ENGINE ADAPTOR	49	98247	DECAL, CONTROL PANEL (1 REQ.)
		(1 REQ.)	50	97082	POSITIONER, HANDLE (2 REQ.)
13	91820	ROTOR ASSEMBLY (1 REQ.)	51	81895	CAP PLUG, 3/4" SQUARE (4 REQ.)
14	65791	BEARING, BALL (1 REQ.)	52	97178	KNOB, HANDLE (2 REQ.)
15	24420	BOLT, ROTOR-5/16"-24 x 6.25 (1 REQ.)	53	97912	BOLT, CARRIAGE-1/4-20" x 2-1/4" (2 REQ.)
16	66825B	CARRIER, REAR BEARING (1 REQ.)	54	98956B	LEG & FOOT SUPPORT ASSEM.
19	86308D	BOLT, STATOR M6-1.00 x 85MM			LEFT SIDE (1 REQ.)
20	00004		55	98956A	LEG & FOOT SUPPORT ASSEM. RIGHT SIDE (1 REQ.)
20	22264	LOCK WASHER-NO.8 (2 REQ.)	56	98955	HANDLE (1 REQ.)
21	66849	SCREW(TAPTITE)-M5-0.80 x 16mm	50 57	87841	VIBRATION MOUNT-LEG (2 REQ.)
~~	00750	(2 REQ.)	57	39253	SCREW, HEX HD, CAPSC.
23	68759	RECEPTACLE-120VOLTS AC, 20A (1 REQ.)			M8-1.25 x 20 LONG (6 REQ.)
24	77247	BREAKER, CIRCUIT-20A (1 REQ.)	59	52858	NUT, FLANGE-M8-1.25 (6 REQ.)
25	72092	PANEL, RECEPTACLE (1 REQ.)	60	22246	LOCKWASHER-5/8" (2 REQ.)
26	91825	BRUSH & BRIDGE RECTIFIER	61	25391	NUT, JAM-5/8"-18 (2 REQ.)
		(1 REQ.)	62	49808	WASHER, FLAT-M12 (2 REQ.)
27	67451	FLAT WASHER-[SPECIAL] (1 REQ.)	63	91094	WHEEL, 8" DIA. (2 REQ.)
29	51715	NUT, HEX-M4-0.7 (2 REQ.)	64	75402	PUSH NUT-1/2" DIA. (2 REQ.)
30	74908	SCREW(TAPTITE)-M5-0.80 x 10mm (4 REQ.)	65	99368	PLATE, ANTI SCRATCH AND WEAR (2 REQ.)
31	86494	SCREW, M6-1.0 x 16 WING (1 REQ.)	66	96049	DECAL, 1-800 NUMBER (1 REQ.)
32	84242	GROMMET RBC (2 REQ.)	67	99541	DECAL, START INSTRUCTIONS (1 REQ.)

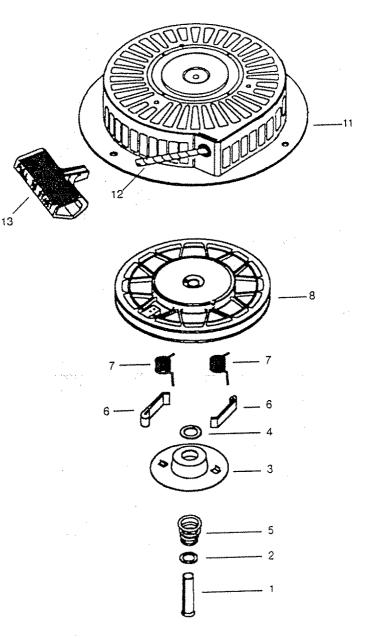
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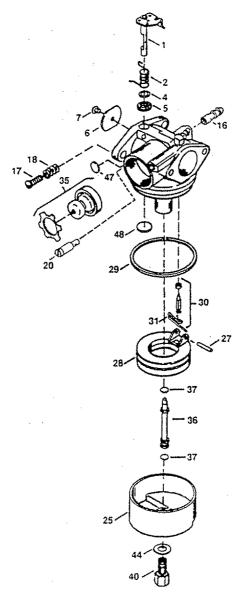
REPAIR PARTS

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	36768	Cylinder (includes 2, 20, 72 & 125)	126	29314B	Std. Intake Valve (1 raq.)
-	0.0707	[1 req.]		29315C	O.S. Intake Valve (1 req.)
2	26727	Dowel Pin (2 req.)	130	650912	5/16-18 x 1-1/2" Screw (7 req.)
14	28277	Washer (1 req.)	130A	650999	5/18-18 x 2-41/64" Screw (1 req.)
15	30589	Governor Rod	135	34645	Spark Plug [RJ-17LM] (1 req.)
16	36618	Governor Lever (1 req.)	150	31672	Valve Spring (2 req.)
17	36700	Governor Lever Clamp (1 req.)	151 153	31673	Lower Valve Spring Cap (2 req.)
18 19	650548 26750	No. 8-32 x 5/16" Hex Screw (1 req.)		36649	Push Rod Guide (1 req.)
	36750 32600	Extension Spring (1 req.)	154	650913 256244	Rocker Arm Stud (2 req.)
20	36621	Oil Seal (1 req.)	155 157	35624A 650914	Rocker Arm (2 req.)
25 25A	36622	Air Baffler (1 reg.) Air Baffle (1 reg.)	157	36629	1/4"-28 Nut(2 req.)
25A 26	30200	#10-24 x 9/16"Screw (2 reg.)	158	35626	Push Rod (2 req.)
30	34734A	Crankshaft (1 req.)	160	36630A	Rocker Arm Cover Gasket (1 req.)
36	29826	Screw, #10-32 x 3/4" (1 req.)	161	651008	Rocker Arm Cover (1 req.) 1/4"-20 x 31/64" Screw (2 req.)
36	29918	Lock Washer (1 req.)	161A	651012	Stud (2 req.)
37	29216	Lock Nut, #10-32 (1 reg.)	173	36675	
38	29642	· · · · · · · · · · · · · · · · · · ·	178	650852	Breather Tube (1 req.)
40	25042 35544A	Retaining Ring (1 req.)	182	650451	1/4"-20 Nut (2 req.)
40	35545A	Piston Pin & Ring Set (Std.)	184	26756	1/4-20 x 1" Screw (2 req.)
	35546	Piston, Pin & Ring Set (0.01 O.S.)	185	36631	Carburetor Gasket (1 req.)
41	35541	Piston, Pin & Ring Set (0.02 O.S.) Piston & Pin Assy. (STD.)	200	36747	Intake Pipe (1 req.)
	35542	Piston & Pin Assy. (STD.) Piston & Pin Assy. (0.01 O.S.)	203	31342	Control Bracket Assembly (1 req.) Compression Spring (1 req.)
	35543	Piston & Pin Assy, (0.02 O.S).	204	650549	5-40 x 7/16" Screw (1 req.)
42	35547A	Piston Ring Set (STD.)	206	610973	Terminal Assembly (1 reg.)
	35548A	Piston Ring Set (0.01 O.S.)	207	36632	Throttle Link (1 reg.)
	35549	Piston Ring Set (0.02 O.S.)	209	650821	#10-32 x 1/2" Screw (2 reg.)
43	20381	Piston Pin Retaining Ring (1 reg.)	215	36638	Control Knob (1 reg.)
45	32875A	Connecting Rod Assy. (1 req.)	223	650451	5/16-18 x 1" Screw (2 reg.)
46	32610A	Connecting Rod Bolt (1 req.)	224	36581	Intake Pipe Gasket (1 reg.)
48	35616	Valve Lifter (1 req.)	238	28820	#10-32 x 1/2" Screw (2 reg.)
49	36611	Oil Dipper (1 reg.)	239	27272A	Air Cleaner Gasket (1 reg.)
50	36620	Camshaft (BCR) (1 req.)	240	36633	Air Cleaner Body (incl. 239) [1 reg.]
60	36623	Blower Housing Ext. (1 req.)	245	36046	Air Cleaner Filter (1 reg.)
64	650378	Screw, 1/4"-20 x 5/8" (1 req.)	250	36635	Air Cleaner Cover (1 reg.)
65	30200	No. 10-24 x 9/16" Screw (1 reg.)	251	650886	Wing Nut (1 req.)
69	36624	Cylinder Cover Gasket (1 reg.)	252	650821	#10-32 x 1/2" Screw (1 reg.)
70	36761	Cyliner Cover Assy. (1 reg.)	253	36701	Compression Release (1 reg.)
72	27642	Oil Drain Plug (2 req.)	254	36702	Compression Release Spring (1 req.
75	28460	Oil Seal (1 req.)	260	36812	Fuel Tank & Blower Housing (1 req.)
80	30574A	Governor Shaft (1 reg.)	261	651008	1/4-29 x 31/64" Screw (1 reg.)
81	30590A	Flat Washer (1 reg.)	261A	650821	#10-32 x 1/2" Screw (1 reg.)
82	30591	Governor Gear (1 reg., incl. No. 81)	262	651008	1/4-20 x 31/64" Screw (2 req.)
83	36057	Governor Spool (1 reg.)	275	36641	Muffler (1 req.)
86	650488	1/4-20 x 1-1/4" Screw (7 req.)	277	651009	1/4-20 x 2-9/32" Screw (2 reg.)
89	610961	Flywheel Key (1 reg.)	285	359858	Starter Cup (1 reg.)
90	611205	Flywheel (1 req.)	287	0	Rivet (can be purchased locally)
92	650815	Belleville Washer (1 reg.)	290	30705	Fuel Line (1 reg.)
93	650816	Flywheel Nut (1 req.)	292	26460	Fuel Line Clamp (1 reg.)
100	34443A	Solid State Ignition (1 reg.)	300	36812	Fuel Tank & Blower Housing (1 req.)
101	610118	Spark Plug Cover (1 req.)	301	36246	Fuel Cap (1 reg.),
102	651007	Solid State Mounting Stud (2 reg.)	311	27625	Oil Fill Plug (1 req.)
103	650814	No. 10-24 x 1" Torx Screw (2 reg.)	313	34080	Spacer (1 req.)
110	36767	Ground Wire (1 reg.)	325	29443	Wire Clip (1 req.)
111	611207	Low Oil Sensor (1 req.)	341	36644	Fuel Tank Bracket (1 reg.)
111A	611212	Low Oil Indicator Light (1 reg.)	370A	36261	Lubrication Decal (1 req.)
112	35967	Low Oil Sensor Gasket (1 reg.)	370B	33107	Control Decal (1 reg.)
113	650950	Torx T-25 #10-24 x 5/8" Screw (4 reg.)	370C	36260	Primer Decal (1 reg.)
119	36738	Cylinder Head Gasket (1 req.)	370K	36695	Starter Decai (1 reg.)
120	36739	Cylinder Head (1 reg.)	380	640017	Carburetor [incl. No. 184] (1 reg.)
125	36471	Exhaust Valve [Std., incl. 151] (1 req.)	390	590736	Rewind Starter (1 reg.)
	36472	Exhaust Valve [1/32" OS, incl. 151]	400	36716A	Gasket Set (1 req.)
		(1 req.)	416	36085	Spark Arresting Screen and Cover [optional] (1 reg.)
			417	650760	#8-32 x 3/8" Screw [optional] (1 reg.)



Rewind Starter No. 590736

ITEM	PART NO.	DESCRIPTION
1	590599A	PIN, SPRING [included No. 4] (1 REQ.)
2	590600	WASHER (1 REQ.)
3	590696	RETAINER (1 REQ.)
4	590601	WASHER (1 REQ.)
5	590697	SPRING, BRAKE (1 REO.)
6	590698	DOG, STARTER (2 REQ.)
7	590699	SPRING, DOG (2 REQ.)
8	590700	PULLEY AND REWIND SPRING ASSEMBLY (1 REQ.)
11	590687	HOUSING ASSEMBLY, STARTER (1 REQ.)
12	590535	ROPE, STARTER (1 REQ.)
13	590701	HANDLE ASSEMBLY, STARTER (1 REQ.)



Carburetor No. 640017

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	631615	Throttle Shaft and Lever Assembly	31	631022	Spring Clip (1 reg.)
		(1 req.)	35	36045	Primer Bulb/retainer Ring (1 reg.)
2	631767	Throttle Return Spring (1 req.)	36	640019	Main Nozzle Tube (1 reg.)
4	631184	Dust Seal Washer (1 req.)	37	632547	"O" Ring, Main Nozzle Tube (2 reg.)
5	631183	Dust Seal [throttle] (1 req.)	40	640015	High Speed Bowl Nut (1 reg.)
6	631036	Throttle Shutter (1 reg.)	44	27110	Bow Nut Washer (1 reg.)
7	650506	Shutter Screw (1 req.)	47	630748	Idle Mixture Well Welch Plug (1 reg.)
16	632164	Fuel Fitting (1 reg.)	48	631027	Welch Plug, Atmospheric Vent (1 reg.)
17	650417	Throttle Crack /Idle Speed Screw	28	632019	Float (1 req.)
18	630766	Tension Spring (1 req.)	29	631028	"O" Ring, Float Bowl-to-body (1 reg.)
20	640018	Idle Restrictor Screw (1 reg.)	30	631028	
25	631867	Float Bowl (1 reg.)	30	031021	Inlet Needle, Seat & Spring Clip [incl. No. 31] (1 req.)
27	631024	Shaft, Float (1 req.)		• .	finor movers (+ ied)

FOR CALIFORNIA RESIDENTS ONLY WHEN SEEKING SERVICE IN CALIFORNIA CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT YOUR WARRANTY RIGHTS AND OBLIGATIONS

The California Air Resources Board and Sears Roebuck and Co., USA (Sears), are pleased to explain the emissions control system warranty on your 1995 and later lawn and garden equipment engine. In California new utility and lawn and garden equipment engines must be designed, built, and equipped to meet the State's stringent anti-smog standards. Sears must warrant the emission control system on your lawn and garden equipment engine for the periods of time listed below provided there has been no abuse, neglect, or improper maintenance of your lawn and garden equipment engine.

Your emission control system includes parts such as the carburetor and the ignition system. Where a warrantable condition exists, Sears will repair your lawn and garden equipment engine at no cost to you. Expenses covered under warranty include diagnosis, parts, and labor.

MANUFACTURER'S WARRANTY COVERAGE

The 1995 and later utility and lawn and garden equipment engines are warranted for two years. If any emission related part on your engine (as listed below) is defective, the part will be repaired or replaced by Sears.

OWNER'S WARRANTY RESPONSIBILITIES

As the lawn and garden equipment engine owner, you are responsible for the performance of the required maintenance listed in your Owner's Manual. Sears recommends that you retain all receipts covering maintenance on your lawn and garden equipment engine, but Sears cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

As the lawn and garden equipment engine owner, you should be aware that Sears may deny you warranty coverage if your lawn and garden equipment engine or a part of it has failed due to abuse, neglect, improper maintenance, unapproved modifications, or the use of parts not made or approved by the original equipment manufacturer.

You are responsible for presenting your lawn and garden equipment engine to a Sears authorized repair center as soon as a problem exists. Warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

If you have any questions regarding your warranty rights and responsibilities, you should contact your nearest authorized service center or call Sears at 1-800-473-7247.

WARRANTY COMMENCEMENT DATE

The warranty period begins on the date the lawn and garden equipment engine is delivered to the original, end-use purchaser.

LENGTH OF COVERAGE

Sears warrants to the initial owner and each subsequent purchaser that the engine is free from defects in materials and workmanship which cause the failure of a warranted part for a period of two years.